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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/886,522	06/21/2001	Hans Artmann	10191/1894	6400
7.	590 06/23/2005		EXAMINER	
KENYON & KENYON			CHEVALIER, ALICIA ANN	
One Broadway New York, NY 10004			ART UNIT	PAPER NUMBER
11011 10111, 111			1772	
			DATE MAILED: 06/23/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	DY)		
	Application No.	Applicant(s)	
Office Action Summers	09/886,522	ARTMANN ET AL.	
Office Action Summary	Examiner	Art Unit	
	Alicia Chevalier	1772	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address –	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Faillure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time, within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).	-
Status		L	
1)⊠ Responsive to communication(s) filed on <u>20 A</u>	nril 2005)	
	action is non-final.		
3)☐ Since this application is in condition for allowar		secution as to the merits is	
closed in accordance with the practice under E	•		
Disposition of Claims		Λ	
4)⊠ Claim(s) <u>1,4-8 and 10-15</u> is/are pending in the	application.	1	`-
4a) Of the above claim(s) is/are withdraw	• •		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1, 4-8 and 10-15</u> is/are rejected.		•	
7) Claim(s) is/are objected to.		•	
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9) The specification is objected to by the Examine	r.	شميمين	•
10) The drawing(s) filed on is/are: a) acce	epted or b) \square objected to by the E	xaminer.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct	on is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1. Certified copies of the priority documents	s have been received.		
2. Certified copies of the priority documents	s have been received in Application	on No	
Copies of the certified copies of the prior	ity documents have been receive	d in this National Stage	
application from the International Bureau	` ''		
* See the attached detailed Office action for a list of	of the certified copies not receive	d.	
•			
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Summary		
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	teatent Application (PTO-152)	
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Act	tion Summary Par	t of Paper No./Mail Date 06212005	

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RESPONSE TO AMENDMENT

Request for Continued Examination

- 1. The Request for Continued Examination (RCE) under 37 CFR 1.53 (d) filed on April 20, 2005 is acceptable and a RCE has been established. An action on the RCE follows.
- 2. Claims 1, 4-8 and 10-15 are pending in the application, claims 2, 3, 9 and 16-24 have been cancelled.
- 3. Amendments to the claims, filed on April 20, 2005, have been entered in the above-identified application.

REJECTIONS

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 102

5. Claims 1, 4-8 and 10-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Fujii et al. (U.S. Patent No. 4,975,390).

Regarding Applicant's claim 1, Fujii discloses a micromechanical component (semiconductor pressure sensor, title) comprising a supporting body (silicone substrate, col. 10, lines 18-19), at least one at least partially unsupported membrane (silicon oxide film, col. 10, lines 22-23) connected to the supporting body (figure 10d), and at least one stabilizing element (piezoresistive layer, col. 10, line 25).

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The at least one stabilizing element is provided in an unsupported area on some areas of a surface of the at least one membrane, wherein the at least one membrane extends continuous over an entire recess etched in the supporting body, and a portion of the at least one stabilizing element contacts only the membrane for a part less than a whole depth of the recess of the membrane and a portion of the at least one stabilizing element is positioned between the supporting body and the at least one membrane and wherein at least a part of the stabilizing element is exposed to the recess etched in the supporting body (col. 10, lines 15-38 and figure 10d).

The limitation "wherein the micromechanical component is configured as a thermal membrane sensor" is deemed to be a statement with regard to the intended use and is not further limiting in so far as the structure of the product is concerned. In article claims, a claimed intended use must result in a *structural difference* between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. MPEP § 2111.02.

The limitation "the at least one stabilizing element is configured to counteract a deformation of the at least one membrane" is a functional limitation and is deemed to be a latent property of the prior art since the prior art is substantially identical in composition and/or structure. MPEP 2145 (II).

Regarding Applicant's claim 4, the limitation "the deformation includes ..." is a functional limitation and is deemed to be a latent property of the prior art since the prior art is substantially identical in composition and/or structure. MPEP § 2145 (II).

Regarding Applicant's claim 5, Fujii discloses that the at least one stabilizing element includes one of a web, a plurality of webs, parallel webs, an arrangement of webs configured in a

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mesh, an arrangement of webs configured in a grid, a web designed as a ring, a plurality of webs designed in concentric rings, and a stabilizing area designed in the shape of one of a tongue and a rod, since the reference teaches a piezoresistive layer, i.e. web (col. 10, line 25).

Regarding Applicant's claim 6, Fujii discloses that the at lest one stabilizing element includes at least one of a ring-shaped skirt arranged around one of recesses and etching holes in the at least one membrane and a stabilizing surface in corner areas of the at least one membrane, since the reference figure 10d shows that the piezoresistive layer are in the corner areas of the silicon oxide film.

Regarding Applicant's claim 7, Fujii discloses that the at least one stabilizing element is arranged on one side of the at least one membrane facing the supporting body (figure 10d).

Regarding Applicant's claim 8, Fujii discloses that the at least one stabilizing element is in direct contact with the at least one membrane and is bonded thereto in at least some areas in the unsupported area (figure 10d).

Regarding Applicant's claim 10, Fujii discloses that the supporting body includes a silicon body (silicone substrate, col. 10, lines 18-19).

Regarding Applicant's claim 11, Fujii discloses that the at least one membrane includes a silicon compound and has a thickness of 10 nm to 10 μ m, since the reference teaches that the silicon oxide film has a thickness of 1,000 to 2,000 Å (col. 8, lines 56-57), which is equivalent to 100-200 nm.

Regarding Applicant's claim 12, Fujii discloses that the silicon compound includes one of a silicon nitride layer, a silicon carbide layer, and a silicon dioxide layer, since the reference teaches that the silicon oxide films of Fujii's invention are silicon dioxide (col. 4, line 64).

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Regarding Applicant's claims 13 and 14, it is well known that micromechanical semiconductor pressure sensors contain circuit structures with sensitive components. Therefore, the limitations of claims 13 and 14 are inherent in the Fujii's micromechanical semiconductor pressure sensor.

Regarding Applicant's claim 15, Fujii discloses that the thickness of the at least one stabilizing element is between 10 nm and 5 μ m, since the reference teaches that the diaphragm has a thickness of 1 to 5 μ m (col. 11, lines 36-37). The diaphragm comprising the piezoresistive layer and the silicon oxide layer, there fore the piezoresistive layer has a thickness between 0 and 5 μ m.

ANSWERS TO APPLICANT'S ARGUMENTS

6. Applicant's arguments in the response filed April 20, 2005 regarding the 35 U.S.C. 102 rejection over Fujii of record have been considered but are most due to the new grounds of rejection.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alicia Chevalier

6/21/05